BIG DATA LAB

Learning component 2

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GITHUB:

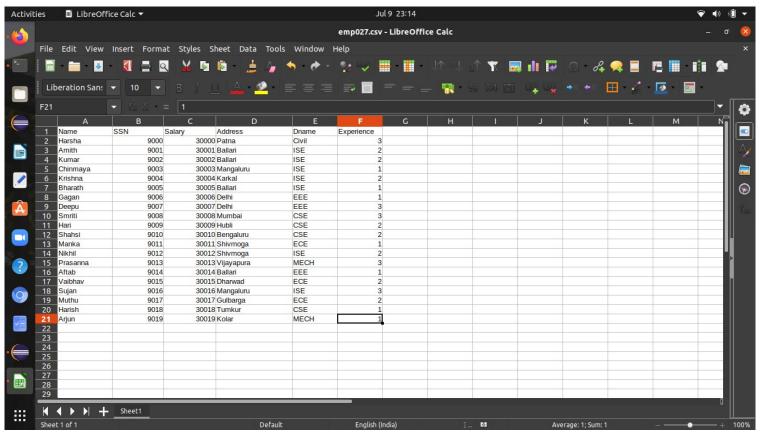
https://github.com/Amith027/BigData_lab_2021/tree/main/Bd_La2_Ex2

Exercise-I (MAP REDUCE)

Create a dataset in excel as .csv file and it should contain the following fields with at least 20 sample datasets in it.

Name	SSN	Salary	Address	Dname	Experience
Harsha	5000	30000	Bangalore	ISE	5

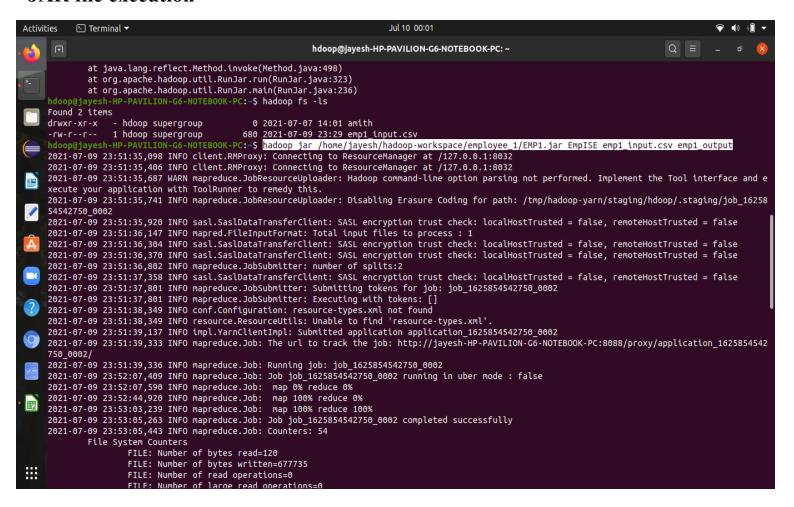
CSV FILE



Use the Hadoop MapReduce programming framework to come up with a Program which will take the data from this .csv file and computes the following.

1. Total number of employees who work in ISE department

JAR file execution



OUTPUT

```
hdoop@jayesh-HP-PAVILION-G6-NOTEBOOK-PC:~$ hadoop fs -ls
Found 3 items
drwxr-xr-x
            - hdoop supergroup
                                        0 2021-07-07 14:01 amith
- [W- [-- [--
            1 hdoop supergroup
                                       680 2021-07-09 23:29 emp1 input.csv
drwxr-xr-x - hdoop supergroup
                                        0 2021-07-09 23:53 emp1_output
hdoop@jayesh-HP-PAVILION-G6-NOTEBOOK-PC:~$ hadoop fs -ls emp1_output
Found 2 items
- FW - F - - F - -
           1 hdoop supergroup
                                        0 2021-07-09 23:53 emp1 output/ SUCCESS
            1 hdoop supergroup
                                       53 2021-07-09 23:53 emp1 output/part-00000
hdoop@jayesh-HP-PAVILION-G6-NOTEBOOK-PC:~$ hadoop fs -cat emp1_output/part-00000
2021-07-09 23:55:21,595 INFO sasl.SaslDataTransferClient: SASL encryption trust check: localHostTrusted = false, remoteHostTrusted = false
Total no.of employees working in ISE Department :
hdoop@jayesh-HP-PAVILION-G6-NOTEBOOK-PC:~$
```

2. Total number of employees with experience = 2 years

JAR file execution

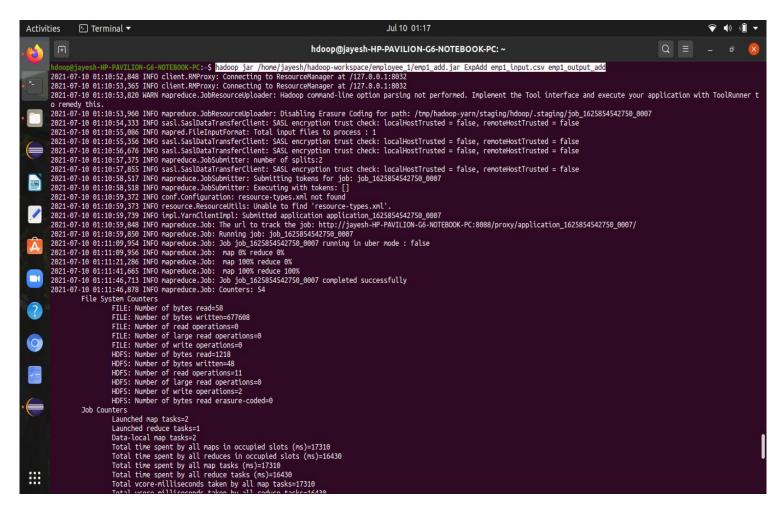
```
| Terminal | Part | Par
```

OUTPUT

```
doop@jayesh-HP-PAVILION-G6-NOTEBOOK-PC:~$ hadoop fs -ls
Found 4 items
rwxr-xr-x - hdoop supergroup
                                     0 2021-07-07 14:01 amith
-rw-r--r-- 1 hdoop supergroup
                                     680 2021-07-09 23:29 emp1 input.csv
drwxr-xr-x - hdoop supergroup
                                       0 2021-07-09 23:53 emp1 output
drwxr-xr-x - hdoop supergroup
                                       0 2021-07-10 00:48 emp1 output exp
doop@jayesh-HP-PAVILION-G6-NOTEBOOK-PC:~$ hadoop fs -ls emp1_output_exp
Found 2 items
                                       0 2021-07-10 00:48 emp1 output exp/ SUCCESS
-rw-r--r-- 1 hdoop supergroup
                                      56 2021-07-10 00:48 emp1 output exp/part-00000
-rw-r--r-- 1 hdoop supergroup
 doop@jayesh-HP-PAVILION-G6-NOTEBOOK-PC:~$ hadoop fs -cat emp1_output_exp/part-00000
2021-07-10 00:49:46,854 INFO sasl.SaslDataTransferClient: SASL encryption trust check: localHostTrusted = false, remoteHostTrusted = false
Total no.of employees having 2 years of experience :
ndoop@jayesh-HP-PAVILION-G6-NOTEBOOK-PC:~$
```

3. Count the number of employees who live in Bengaluru.

JAR file execution



OUTPUT

```
hdoop@jayesh-HP-PAVILION-G6-NOTEBOOK-PC:-$ hadoop fs -ls
Found 5 items
drwxr-xr-x - hdoop supergroup
                                      0 2021-07-07 14:01 amith
-rw-r--r-- 1 hdoop supergroup
                                     680 2021-07-09 23:29 emp1 input.csv
drwxr-xr-x - hdoop supergroup
                                      0 2021-07-09 23:53 emp1 output
drwxr-xr-x - hdoop supergroup
                                       0 2021-07-10 01:11 emp1 output add
                                       0 2021-07-10 00:48 emp1_output_exp
drwxr-xr-x - hdoop supergroup
hdoop@jayesh-HP-PAVILION-G6-NOTEBOOK-PC:~$ hadoop fs -ls emp1 output add
Found 2 items
-rw-r--r-- 1 hdoop supergroup
                                       0 2021-07-10 01:11 emp1 output_add/_SUCCESS
-rw-r--r-- 1 hdoop supergroup
                                       48 2021-07-10 01:11 emp1_output_add/part-00000
hdoop@javesh-HP-PAVILION-G6-NOTEBOOK-PC:-$ hadoop fs -cat emp1_output_add/part-00000
2021-07-10 01:14:50,692 INFO sasl.SaslDataTransferClient: SASL encryption trust check: localHostTrusted = false, remoteHostTrusted = false
Total no.of employees working in Bengaluru: 1
hdoop@jayesh-HP-PAVILION-G6-NOTEBOOK-PC:~$
```

```
PRGM1 Employees in ISE dept.
```

```
import java.io.IOException;
import java.util.*;
import org.apache.hadoop.fs.Path;
import org.apache.hadoop.conf.*;
import org.apache.hadoop.io.*;
import org.apache.hadoop.mapred.*;
import org.apache.hadoop.util.*;
public class EmpISE {
     //MAPPER CODE
     public static class Map extends MapReduceBase implements
     Mapper<LongWritable, Text, Text, IntWritable> {
     private final static IntWritable one = new IntWritable(1);
     private Text word = new Text();
     public void map(LongWritable key, Text value, OutputCollector<Text,
     IntWritable> output, Reporter reporter) throws IOException {
      String data = value.toString();
      String[] Ecount= data.split(",");
      if (Ecount[4].equals("ISE")) {
          output.collect(new Text("Total no.of employees working in ISE
     Department: "), one);
      }
     //REDUCER CODE
     public static class Reduce extends MapReduceBase implements
     Reducer<Text, IntWritable, Text, IntWritable> {
     public void reduce(Text key, Iterator<IntWritable> values,
     OutputCollector<Text, IntWritable> output, Reporter reporter)
     throws IOException { //{little: {1,1}}}
      int val = 0:
```

```
while(values.hasNext()) {
     val += values.next().get();
 output.collect(key, new IntWritable(val));
//DRIVER CODE
public static void main(String[] args) throws Exception {
 JobConf conf = new JobConf(EmpISE.class);
 conf.setJobName("Total no.of employees working in ISE
Department");
 conf.setOutputKeyClass(Text.class);
 conf.setOutputValueClass(IntWritable.class);
 conf.setMapperClass(Map.class);
 conf.setCombinerClass(Reduce.class);
 conf.setReducerClass(Reduce.class);
 conf.setInputFormat(TextInputFormat.class);
 conf. set Output Format (Text Output Format. class);\\
 FileInputFormat.setInputPaths(conf, new Path(args[0]));
 FileOutputFormat.setOutputPath(conf, new Path(args[1]));
 JobClient.runJob(conf);
}
```

PRGM2 Employees with experience more than 2 yrs.

```
import java.io.IOException;
import java.util.*;
import org.apache.hadoop.fs.Path;
import org.apache.hadoop.conf.*;
import org.apache.hadoop.io.*;
import org.apache.hadoop.mapred.*;
import org.apache.hadoop.util.*;

public class EmpExp {
    //Mapper Code
```

}

```
public static class Map extends MapReduceBase implements
Mapper<LongWritable, Text, Text, IntWritable> {
 private final static IntWritable one = new IntWritable(1);
 private Text word = new Text();
 public void map(LongWritable key, Text value,
OutputCollector<Text, IntWritable> output, Reporter reporter)
throws IOException {
     String data = value.toString();
     String[] Ecount= data.split(",");
     if (Ecount[5].equals("2")) {
          output.collect(new Text("Total no.of employees having 2
years of experience: "), one);
 //REDUCER CODE
 public static class Reduce extends MapReduceBase implements
Reducer<Text, IntWritable, Text, IntWritable> {
 public void reduce(Text key, Iterator<IntWritable> values,
OutputCollector<Text, IntWritable> output, Reporter reporter)
throws IOException { //{little: {1,1}}}
     int val = 0;
     while(values.hasNext()) {
          val += values.next().get();
     output.collect(key, new IntWritable(val));
 }
}
 //DRIVER CODE
 public static void main(String[] args) throws Exception {
     JobConf conf = new JobConf(EmpExp.class);
     conf.setJobName("Total no.of employees having 5 years of
experience");
     conf.setOutputKeyClass(Text.class);
```

```
conf.setOutputValueClass(IntWritable.class);
    conf.setMapperClass(Map.class);
    conf.setCombinerClass(Reduce.class);
    conf.setReducerClass(Reduce.class);
    conf.setInputFormat(TextInputFormat.class);
    conf.setOutputFormat(TextOutputFormat.class);
    FileInputFormat.setInputPaths(conf, new Path(args[0]));
    FileOutputFormat.setOutputPath(conf, new Path(args[1]));
    JobClient.runJob(conf);
}
```

PRGM3 Employees in Bengaluru.

```
import java.io.IOException;
import java.util.*;
import org.apache.hadoop.fs.Path;
import org.apache.hadoop.conf.*;
import org.apache.hadoop.io.*;
import org.apache.hadoop.mapred.*;
import org.apache.hadoop.util.*;
public class ExpAdd {
     //Mapper Code
     public static class Map extends MapReduceBase implements
     Mapper<LongWritable, Text, Text, IntWritable> {
      private final static IntWritable one = new IntWritable(1);
      private Text word = new Text();
      public void map(LongWritable key, Text value,
     OutputCollector<Text, IntWritable> output, Reporter reporter)
     throws IOException {
          String data = value.toString();
          String[] Ecount= data.split(",");
          if (Ecount[3].equals("Bengaluru")) {
```

```
output.collect(new Text("Total no.of employees working in
Bengaluru: "), one);
     }
 //REDUCER CODE
 public static class Reduce extends MapReduceBase implements
Reducer<Text, IntWritable, Text, IntWritable> {
 public void reduce(Text key, Iterator<IntWritable> values,
OutputCollector<Text, IntWritable> output, Reporter reporter)
throws IOException { //{little: {1,1}}}
     int val = 0;
     while(values.hasNext()) {
          val += values.next().get();
     output.collect(key, new IntWritable(val));
 }
 //DRIVER CODE
 public static void main(String[] args) throws Exception {
     JobConf conf = new JobConf(EmpExp.class);
     conf.setJobName("Total no.of employees working in
Bengaluru");
     conf.setOutputKeyClass(Text.class);
     conf.setOutputValueClass(IntWritable.class);
     conf.setMapperClass(Map.class);
     conf.setCombinerClass(Reduce.class);
     conf.setReducerClass(Reduce.class);
     conf.setInputFormat(TextInputFormat.class);
     conf.setOutputFormat(TextOutputFormat.class);
     FileInputFormat.setInputPaths(conf, new Path(args[0]));
     FileOutputFormat.setOutputPath(conf, new Path(args[1]));
     JobClient.runJob(conf);
 }
```

}

Exercise-II

Use the above dataset in .csv file and create a database called as EmployeeDB. Create a table under the database called as Employee using HIVEQL. The table fields are same, that is,

Name	SSN	Salary	Address	Dname	Experience
Harsha	5000	30000	Bangalore	ISE	5

1) Crate database employee db and a table in it with named employee

```
hive> show databases;
default
dummy
Time taken: 0.037 seconds, Fetched: 2 row(s)
hive> create database Employee;
Time taken: 0.142 seconds
hive> show databases:
default
dummy
employee
Time taken: 0.032 seconds, Fetched: 3 row(s)
hive> use Employee;
Time taken: 0.035 seconds
hive> show tables;
Time taken: 0.04 seconds
hive> create table employee(Name string, SSN int, Salary int, Address string, Dname string, Experience int);
Time taken: 0.183 seconds
hive> desc employee;
0K
name
                        string
                        int
SSN
salary
                        int
address
                        string
                        string
dname
experience
                        int
Time taken: 0.094 seconds, Fetched: 6 row(s)
hive>
```

2. Insert 5 records using INSERT command

```
In order to change the average load for a reducer (in bytes):
   set hive.exec.reducers.bytes.per.reducer=<number>
In order to limit the maximum number of reducers:
   set hive.exec.reducers.max=<number>
 In order to set a constant number of reducers:
  set mapreduce.job.reduces=<number>
Starting Job = job_1625904496337_0001, Tracking URL = http://jayesh-HP-PAVILION-G6-NOTEBOOK-PC:8088/proxy/application_1625904496337_0001/Kill Command = /home/hdoop/hadoop-3.2.1/bin/mapred job -kill job_1625904496337_0001
Hadoop job information for Stage-1: number of mappers: 1; number of reducers: 1
2021-07-10 14:43:25,533 Stage-1 map = 0%, reduce = 0%
2021-07-10 14:43:35,110 Stage-1 map = 100%, reduce = 0%, Cumulative CPU 4.2 sec
2021-07-10 14:43:42,507 Stage-1 map = 100%, reduce = 100%, Cumulative CPU 7.55 sec
MapReduce Total cumulative CPU time: 7 seconds 550 msec
Ended Job = job_1625904496337_0001
Stage-4 is selected by condition resolver.
Stage-3 is filtered out by condition resolver.
Stage-5 is filtered out by condition resolver.
Moving data to directory hdfs://127.0.0.1:9000/user/hive/warehouse/employee.db/employee/.hive-staging_hive_2021-07-10_14-42-54_203_5773417581175335080-1/-ext-10000
 Loading data to table employee.employee
MapReduce Jobs Launched:
Stage-Stage-1: Map: 1 Reduce: 1 Cumulative CPU: 7.55 sec HDFS Read: 20975 HDFS Write: 663 SUCCESS Total MapReduce CPU Time Spent: 7 seconds 550 msec
Time taken: 51.775 seconds
hive> select * from employee;
OK
                     50000 Bengaluru
Amith 5000
Chinmaya
                     5001
                               45000 Mangaluru
                                                               ISE
                     60000 Bengaluru
Bharath 5002
Vaibhav 5003
Aftab 5004
                    120000 Ballari ECE
30000 Ballari EEE
Time taken: 0.474 seconds, Fetched: 5 row(s)
hive>
```

3. Demonstrate the Alter command for the following cases, Rename the table name to "Emp". Rename the column name "Dname" to "Dept_name"

```
show tables;
employee
Time taken: 0.038 seconds, Fetched: 1 row(s) hive> alter table employee rename to Emp;
OK
Time taken: 0.384 seconds
hive> show tables;
OK
Time taken: 0.037 seconds, Fetched: 1 row(s) hive> alter table emp change dname dept_name string;
OK
Time taken: 0.216 seconds
hive> desc emp;
OK
                                 string
name
ssn
salary
                                 int
                                 int
                                 string
address
                                 string
dept_name
experience
                                 int
  ime taken: 0.062 seconds, Fetched: 6 row(s)
```

4. Retrieve all the employees who's salary is not less than 50000.

```
hive> select * from emp where salary>=50000;
OK
Amith 5000 50000 Bengaluru ISE 6
Bharath 5002 60000 Bengaluru CSE 5
Vaibhav 5003 120000 Ballari ECE 2
Time taken: 0.416 seconds, Fetched: 3 row(s)
hive>
```

5. Extract all employees who live in Bangalore but having less than 5 years of experience.

```
hive> select * from emp where address='Bengaluru' and experience>5;
OK
Amith 5000 50000 Bengaluru ISE 6
Time taken: 0.354 seconds, Fetched: 1 row(s)
hive>
```

6. Create separate view containing Name, Dept_name of employees

```
hive> create view details as (select name, dept_name from emp);

OK
Time taken: 0.589 seconds
hive> select * from details;

OK
Amith ISE
Chinmaya ISE
Bharath CSE
Vaibhav ECE
Aftab EEE
Time taken: 0.291 seconds, Fetched: 5 row(s)
hive>
```

7. Display Name and SSN and use group by SSN and order by Name

```
hive> select name,ssn from emp group by ssn,name order by name;
Query ID = hdoop_20210710152858_d8c834be-84fa-4a99-be9a-0accbb94a717
Total jobs = 2
Launching Job 1 out of 2
Number of reduce tasks not specified. Estimated from input data size: 1
In order to change the average load for a reducer (in bytes):
  set hive.exec.reducers.bytes.per.reducer=<number>
In order to limit the maximum number of reducers:
  set hive.exec.reducers.max=<number>
In order to set a constant number of reducers:
  set mapreduce.job.reduces=<number>
Starting Job = job_1625904496337_0002, Tracking URL = http://jayesh-HP-PAVILION-G6-NOTEBOOK-PC:8088/proxy/application_1625904496337_0002/
Kill Command = /home/hdoop/hadoop-3.2.1/bin/mapred job -kill job_1625904496337_0002
Hadoop job information for Stage-1: number of mappers: 1; number of reducers: 1
2021-07-10 15:29:10,978 Stage-1 map = 0%, reduce = 0%
2021-07-10 15:29:18,511 Stage-1 map = 100%, reduce = 0%, Cumulative CPU 3.15 sec
2021-07-10 15:29:25,852 Stage-1 map = 100%, reduce = 100%, Cumulative CPU 6.24 sec
MapReduce Total cumulative CPU time: 6 seconds 240 msec
Ended Job = job 1625904496337 0002
Launching Job 2 out of 2
Number of reduce tasks determined at compile time: 1
In order to change the average load for a reducer (in bytes):
  set hive.exec.reducers.bytes.per.reducer=<number>
In order to limit the maximum number of reducers:
  set hive.exec.reducers.max=<number>
In order to set a constant number of reducers:
 set mapreduce.job.reduces=<number>
Starting Job = job_1625904496337_0003, Tracking URL = http://jayesh-HP-PAVILION-G6-NOTEBOOK-PC:8088/proxy/application_1625904496337_0003/
Kill Command = /home/hdoop/hadoop-3.2.1/bin/mapred job -kill job_1625904496337_0003
Hadoop job information for Stage-2: number of mappers: 1; number of reducers: 1
2021-07-10 15:29:42,316 Stage-2 map = 0%, reduce = 0%
2021-07-10 15:29:48,562 Stage-2 map = 100%, reduce = 0%, Cumulative CPU 2.58 sec
2021-07-10 15:29:55,887 Stage-2 map = 100%, reduce = 100%, Cumulative CPU 5.89 sec
MapReduce Total cumulative CPU time: 5 seconds 890 msec
Ended Job = job 1625904496337 0003
MapReduce Jobs Launched:
Stage-Stage-1: Map: 1 Reduce: 1 Cumulative CPU: 6.24 sec HDFS Read: 11946 HDFS Write: 233 SUCCESS
Stage-Stage-2: Map: 1 Reduce: 1 Cumulative CPU: 5.89 sec HDFS Read: 7643 HDFS Write: 209 SUCCESS
Total MapReduce CPU Time Spent: 12 seconds 130 msec
0K
Aftab 5004
Amith 5000
Bharath 5002
Chinmaya
                5001
Vaibhav 5003
Time taken: 59.754 seconds, Fetched: 5 row(s)
hive>
```

8. Retrieve Maximum salary, minimum salary and Average salary of the employees

```
hive> select min(salary),max(salary),avg(salary) from emp;
Query ID = hdoop_20210710153201_b0db9571-560b-46c0-b610-04e43d6fc248
Total jobs = 1
Launching Job 1 out of 1
Number of reduce tasks determined at compile time: 1
In order to change the average load for a reducer (in bytes):
  set hive.exec.reducers.bytes.per.reducer=<number>
In order to limit the maximum number of reducers:
  set hive.exec.reducers.max=<number>
In order to set a constant number of reducers:
  set mapreduce.job.reduces=<number>
Starting Job = job_1625904496337_0004, Tracking URL = http://jayesh-HP-PAVILION-G6-NOTEBOOK-PC:8088/proxy/application_1625904496337_0004/
Kill Command = /home/hdoop/hadoop-3.2.1/bin/mapred job -kill job_1625904496337_0004
Hadoop job information for Stage-1: number of mappers: 1; number of reducers: 1
2021-07-10 15:32:13,827 Stage-1 map = 0%, reduce = 0%
2021-07-10 15:32:21,157 Stage-1 map = 100%, reduce = 0%, Cumulative CPU 2.93 sec
2021-07-10 15:32:29,464 Stage-1 map = 100%, reduce = 100%, Cumulative CPU 8.52 sec
MapReduce Total cumulative CPU time: 8 seconds 520 msec
Ended Job = job 1625904496337 0004
MapReduce Jobs Launched:
Stage-Stage-1: Map: 1 Reduce: 1 Cumulative CPU: 8.52 sec HDFS Read: 17232 HDFS Write: 120 SUCCESS
Total MapReduce CPU Time Spent: 8 seconds 520 msec
OK
30000 120000 61000.0
Time taken: 28.718 seconds, Fetched: 1 row(s)
hive>
```

9. Create Another table called Department with the following fields (Dname = Dept_name and perform the following joins (outer, left outer, right outer) over Dname

```
hive> create table department(dno int, dname string);
Time taken: 0.217 seconds
hive> show tables:
department
details
Time taken: 0.037 seconds, Fetched: 3 row(s)
hive> desc department;
OK
dno
                        int
dname
                        string
Time taken: 0.072 seconds, Fetched: 2 row(s)
hive> insert into department values(6, 'ISE'),(5, 'ECE'),(7, 'EEE');
Query ID = hdoop 20210710153505 c48f0fb6-2a8d-4095-b947-79745aa83721
Total jobs = 3
Launching Job 1 out of 3
Number of reduce tasks determined at compile time: 1
In order to change the average load for a reducer (in bytes):
  set hive.exec.reducers.bytes.per.reducer=<number>
In order to limit the maximum number of reducers:
 set hive.exec.reducers.max=<number>
In order to set a constant number of reducers:
 set mapreduce.job.reduces=<number>
Starting Job = job_1625904496337_0005, Tracking URL = http://jayesh-HP-PAVILION-G6-NOTEBOOK-PC:8088/proxy/application_1625904496337_0005/
Kill Command = /home/hdoop/hadoop-3.2.1/bin/mapred job -kill job_1625904496337_0005
Hadoop job information for Stage-1: number of mappers: 1; number of reducers: 1
2021-07-10 15:35:18,952 Stage-1 map = 0%, reduce = 0%
2021-07-10 15:35:26,320 Stage-1 map = 100%, reduce = 0%, Cumulative CPU 4.16 sec
2021-07-10 15:35:34,644 Stage-1 map = 100%, reduce = 100%, Cumulative CPU 6.69 sec
MapReduce Total cumulative CPU time: 6 seconds 690 msec
Ended Job = job 1625904496337 0005
Stage-4 is selected by condition resolver.
Stage-3 is filtered out by condition resolver.
Stage-5 is filtered out by condition resolver.
Moving data to directory hdfs://127.0.0.1:9000/user/hive/warehouse/employee.db/department/.hive-staging_hive_2021-07-10_15-35-05_976_3910694052797637697-1/-ext-10000
Loading data to table employee.department
MapReduce Jobs Launched:
Stage-Stage-1: Map: 1 Reduce: 1 Cumulative CPU: 6.69 sec HDFS Read: 15614 HDFS Write: 280 SUCCESS
Total MapReduce CPU Time Spent: 6 seconds 690 msec
Time taken: 31.337 seconds
hive> select * from department;
        ISE
        ECE
Time taken: 0.22 seconds, Fetched: 3 row(s)
hive>
```

10. Left outer Join

```
hive> select * from emp left outer join department where dname=dept_name;
Query ID = hdoop_20210710153700_f54cdda9-22b0-4a41-8d53-bd47ac0f67a4
Total jobs = 1
SLF4J: See http://www.slf4j.org/codes.html#multiple bindings for an explanation.
SLF4J: Actual binding is of type [org.apache.logging.slf4j.Log4jLoggerFactory]
                      Dump the side-table for tag: 1 with group count: 3 into file: file:/tmp/hive/java/hdoop/310c2f3c-bd0f-43a4-9980-56c7c615f0ef/hive_2021-07-10_15-37-00_765_7966489225870597337-1/-local-10004/Has
hTable-Stage-3/MapJoin-mapfile01--.hashtable2021-07-10 15:37:17 Uploaded 1 File to: file:/tmp/hive/java/hdoop/310c2f3c-bd0f-43a4-9980-56c7c615f0ef/hive_2021-07-10_15-37-00_765_7966489225870597337-1/-local-10004/HashT
able-Stage-3/MapJoin-mapfile01--.hashtable (329 bytes)
Execution completed successfully
MapredLocal task succeeded
Launching Job 1 out of 1
Number of reduce tasks is set to 0 since there's no reduce operator
Starting Job = job_1625904496337_0006, Tracking URL = http://jayesh-HP-PAVILION-G6-NOTEBOOK-PC:8008/proxy/application_1625904496337_0006/
Kill Command = /home/hdoop/hadoop-3.2.1/bin/mapred job -kill job_1625904496337_0006
Hadoop job information for Stage-3: number of mappers: 1; number of reducers: 0
2021-07-10 15:37:30,959 Stage-3 map = 0%, reduce = 0%
2021-07-10 15:37:39,311 Stage-3 map = 100%, reduce = 0%, Cumulative CPU 5.17 sec
MapReduce Total cumulative CPU time: 5 seconds 170 msec
Ended Job = job_1625904496337_0006
MapReduce Jobs Launched:
Stage-Stage-3: Map: 1 Cumulative CPU: 5.17 sec HDFS Read: 10418 HDFS Write: 293 SUCCESS
Total MapReduce CPU Time Spent: 5 seconds 170 msec
Amith 5000
                                                               ISE
                       Bengaluru
                       45000 Mangaluru
               5001
                                               ISE
                                                                       ISE
Chinmaya
                                                      4
Vaibhay 5003
               120000 Ballari ECE
Aftab 5004
               30000 Ballari EEE
Time taken: 40.776 seconds, Fetched: 4 row(s)
hive>
```

11. Right outer join

```
hive> select * from emp right outer join department where dname=dept_name;
Query ID = hdoop_20210710153825_afff9cc7-d50c-462a-8535-4e01f72d5b23
Total jobs = 1
2021-07-10 15:38:35
                       Starting to launch local task to process map join;
                                                                             maximum memory = 239075328
2021-07-10 15:38:38
                       Uploaded 1 File to: file:/tmp/hive/java/hdoop/310c2f3c-bd0f-43a4-9980-56c7c615f0ef/hive_2021-07-10_15-38-25_780_8433326092268546618-1/-local-10004/HashTable-Stage-3/MapJoin-mapfile11--.hashtad
le (329 bytes)
Execution completed successfully
MapredLocal task succeeded
Launching Job 1 out of 1
Number of reduce tasks is set to 0 since there's no reduce operator
Starting Job = job_1625904496337_0007, Tracking URL = http://jayesh-HP-PAVILION-G6-NOTEBOOK-PC:8088/proxy/application_1625904496337_0007/
Kill Command = /home/hdoop/hadoop-3.2.1/bin/mapred job -kill job_1625904496337_0007
Hadoop job information for Stage-3: number of mappers: 1; number of reducers: 0
2021-07-10 15:38:50,761 Stage-3 map = 0%, reduce = 0%
2021-07-10 15:38:59,173 Stage-3 map = 100%, reduce = 0%, Cumulative CPU 5.2 sec
MapReduce Total cumulative CPU time: 5 seconds 200 msec
Ended Job = job 1625904496337_0007
MapReduce Jobs Launched:
Stage-Stage-3: Map: 1 Cumulative CPU: 5.2 sec HDFS Read: 10431 HDFS Write: 293 SUCCESS
Total MapReduce CPU Time Spent: 5 seconds 200 msec
Amith 5000
                       Bengaluru
                                       ISE
                                                               ISE
                       45000 Mangaluru
                                               ISE
                                                                       ISE
Chinmaya
                5001
               120000 Ballari ECE
                                                       ECE
Vaibhav 5003
                                       2
Aftab 5004
                       Ballari EEE
               30000
                                                       EEE
                                       3
Time taken: 34.524 seconds, Fetched: 4 row(s)
hive>
```

12. Full Outer join

```
hive> select * from emp full outer join department where dname=dept_name;
Query ID = hdoop 20210710153949 9556189d-8672-4ade-acbf-83db3feba343
Total jobs = 1
SLF4J: Found binding in [jar:file:/home/hdoop/hadoop-3.2.1/share/hadoop/common/lib/slf4j-log4j12-1.7.25.jar:/org/slf4j/impl/StaticLoggerBinder.class]
SLF4J: Actual binding is of type [org.apache.logging.slf4j.Log4jLoggerFactory]
2021-07-10 15:40:00 Dump the side-table for tag: 1 with group count: 3 into file: file:/tmp/hive/java/hdoop/310c2f3c-bd0f-43a4-9980-56c7c615f0ef/hive_2021-07-10_15-39-49_119_2074615144985493783-1/-local-10004/Has
hTable-Stage-3/MapJoin-mapfile21--.hashtable2021-07-10 15:40:00 Uploaded 1 File to: file:/tmp/hive/java/hdoop/310c2f3c-bd0f-43a4-9980-56c7c615f0ef/hive_2021-07-10_15-39-49_119_2074615144985493783-1/-local-10004/HashT
able-Stage-3/MapJoin-mapfile21--.hashtable (329 bytes)
Execution completed successfully
MapredLocal task succeeded
Launching Job 1 out of 1
Number of reduce tasks is set to \theta since there's no reduce operator
Starting Job = job_1625904496337_0008, Tracking URL = http://jayesh-HP-PAVILION-G6-NOTEBOOK-PC:8088/proxy/application_1625904496337_0008/
Kill Command = /home/hdoop/hadoop-3.2.1/bin/mapred job -kill job_1625904496337_0008
Hadoop job information for Stage-3; number of mappers: 1; number of reducers: 0
2021-07-10 15:40:12,100 Stage-3 map = 0%, reduce = 0%
2021-07-10 15:40:20,445 Stage-3 map = 100%, reduce = 0%, Cumulative CPU 5.3 sec
MapReduce Total cumulative CPU time: 5 seconds 300 msec
Ended Job = job 1625904496337 0008
MapReduce Jobs Launched:
Stage-Stage-3: Map: 1 Cumulative CPU: 5.3 sec HDFS Read: 10431 HDFS Write: 293 SUCCESS
Total MapReduce CPU Time Spent: 5 seconds 300 msec
Amith 5000
                       Bengaluru
                                       ISE
                                                               ISE
Chinmaya
                                                                       ISE
                                               ISE
                5001 45000 Mangaluru
Vaibhav 5003
               120000 Ballari ECE
                                                       ECE
Aftab 5004
               30000
                       Ballari EEE
                                                       EEE
Time taken: 32.49 seconds, Fetched: 4 row(s)
hive>
```

CODE:

hive > show databases;

OK

default

Time taken: 0.403 seconds, Fetched: 1 row(s) hive> create database employee;

OK

Time taken: 0.153 seconds

hive> use employee;

OK

Time taken: 0.036 seconds

hive> show tables;

OK

Time taken: 0.038 seconds

hive> create table employee(Name string,SSN int,Address string,Dname

```
String, Experience int);
OK
Time taken: 0.443 seconds
hive> show tables:
OK
employee
Time taken: 0.028 seconds, Fetched: 1 row(s)
hive > desc employee;
OK
name
ssn
address
dname
experience
Time taken: 0.132 seconds, Fetched: 5 row(s)
hive> insert into employee values('chinmaya',5000,12000,'Bangalore','ISE',6),
> ('Shashank',5001,42000,'Shimoga','EC',4), >
('Amith',5002,22000,'Bangalore','ISE',5),
> ('Krushik',5003,50000,'Mangalore','EEE',2), >
('Nikhil',5004,52000,'Ballary','AERO',3);
FAILED: SemanticException [Error 10044]: Line 1:12 Cannot insert into target table
because column number/types are different 'employee': Table insclause-0 has 5
columns, but query has 6 columns.
hive > drop table employee;
OK
Time taken: 0.478 seconds hive > show tables;
OK
Time taken: 0.025 seconds
string int string string int
hive> create table employee(Name string,SSN int,Salary int,Address string,Dname
String, Experience int);
OK
Time taken: 0.109 seconds
hive> insert into employee values('chinmaya',5000,12000,'Bangalore','ISE',6), >
('Shashank',5001,42000,'Shimoga','EC',4),
> ('Amith',5002,22000,'Bangalore','ISE',5),
> ('Krushik',5003,50000,'Mangalore','EEE',2),
```

> ('Nikhil',5004,52000,'Ballary','AERO',3);

 $Query\ ID = hdoop_20210710120100_c46890b9-092e-45ec-84e1-4315c11e11c4$

Total jobs = 3

Launching Job 1 out of 3

Number of reduce tasks determined at compile time: 1

In order to change the average load for a reducer (in bytes):

set hive.exec.reducers.bytes.per.reducer=<number> In order to limit the maximum number of reducers:

set hive.exec.reducers.max=<number>

In order to set a constant number of reducers:

set mapreduce.job.reduces=<number>

Starting Job = job_1625897919713_0001, Tracking URL = http://Chinmayakb:8088/proxy/application 1625897919713_0001/

Kill Command = /home/hdoop/hadoop-3.2.1/bin/mapred job -kill

job_1625897919713_0001

Hadoop job information for Stage-1: number of mappers: 1; number of reducers: 1

2021-07-10 12:01:09,670 Stage-1 map = 0%, reduce = 0%

2021-07-10 12:01:15,889 Stage-1 map = 100%, reduce = 0%, Cumulative CPU 2.19 sec

2021-07-10 12:01:21,007 Stage-1 map = 100%, reduce = 100%, Cumulative CPU 3.75 sec

MapReduce Total cumulative CPU time: 3 seconds 750 msec

Ended Job = $job_1625897919713_0001$

Stage-4 is selected by condition resolver.

Stage-3 is filtered out by condition resolver.

Stage-5 is filtered out by condition resolver.

Moving data to directory

hdfs://127.0.0.1:9000/user/hive/warehouse/employee.db/employee/.hive-

staging_hive_2021-07-10_12-01-00_533_3418192329285162114-1/-ext-10000

Loading data to table employee.employee

MapReduce Jobs Launched:

Stage-Stage-1: Map: 1 Reduce: 1 Cumulative CPU: 3.75 sec HDFS Read: 20983

HDFS Write: 671 SUCCESS

Total MapReduce CPU Time Spent: 3 seconds 750 msec

OK

Time taken: 23.141 seconds

hive> select * from employee;

OK chinmaya Shashank Amith Krushik Nikhil Time taken: 5000 12000Bangalore ISE 6 5001 42000Shimoga EC4 5002 22000Bangalore ISE 5 5003 50000Mangalore EEE 2 5004 52000Ballary AERO 3 0.206 seconds, Fetched: 5 row(s) > show tables; OK employee Time taken: 0.025 seconds, Fetched: 1 row(s) hive> alter table employee rename to EMP; OK Time taken: 0.153 seconds hive> show tables; OK emp Time taken: 0.028 seconds, Fetched: 1 row(s) hive> alter table emp change dname dept_name string; OK Time taken: 0.121 seconds hive > desc emp; OK name ssn salary address dept_name experience Time taken: hive> select OK Krushik Nikhil Time taken: hive> select OK Time taken:

hive> select

OK

```
chinmaya
Time taken:
hive> create view details as (select name,dept_name from emp); OK
string int int string string int
0.04 seconds, Fetched: 6 row(s)
* from emp where salary>=50000;
5003 50000Mangalore EEE 2
5004 52000Ballary AERO 3
0.212 seconds, Fetched: 2 row(s)
* from emp where address ='Bangalore' and experience<5;
0.161 seconds
* from emp where address ='Bangalore' and experience>5;
5000 12000Bangalore ISE 6 0.136 seconds, Fetched: 1 row(s)
0.159 seconds * from details;
Time taken:
hive> select
OK
chinmaya
Shashank
Amith
Krushik
Nikhil
Time taken:
hive> select
Query ID = hdoop_20210710120631_8239df8f-b6af-4117-bbe4-bb1592299fbd Total
jobs = 2
Launching Job 1 out of 2
Number of reduce tasks not specified. Estimated from input data size: 1 In order to
change the average load for a reducer (in bytes):
set hive.exec.reducers.bytes.per.reducer=<number> In order to limit the maximum
number of reducers:
set hive.exec.reducers.max=<number>
In order to set a constant number of reducers:
```

Starting Job = job 1625897919713 0002, Tracking URL = http://Chinmayakb:8088/

set mapreduce.job.reduces=<number>

```
proxy/application 1625897919713 0002/
Kill Command = /home/hdoop/hadoop-3.2.1/bin/mapred job -kill
job_1625897919713_0002
Hadoop job information for Stage-1: number of mappers: 1; number of reducers: 1
2021-07-10 12:06:38,147 Stage-1 map = 0%, reduce = 0%
2021-07-10 12:06:43,301 Stage-1 map = 100%, reduce = 0%, Cumulative CPU 1.4
2021-07-10 12:06:49,510 Stage-1 map = 100%, reduce = 100%, Cumulative CPU
2.86 sec
MapReduce Total cumulative CPU time: 2 seconds 860 msec
Ended Job = job_1625897919713_0002
Launching Job 2 out of 2
Number of reduce tasks determined at compile time: 1
In order to change the average load for a reducer (in bytes):
set hive.exec.reducers.bytes.per.reducer=<number> In order to limit the maximum
number of reducers:
set hive.exec.reducers.max=<number>
In order to set a constant number of reducers:
set mapreduce.job.reduces=<number>
Starting Job = job_1625897919713_0003, Tracking URL = http://Chinmayakb:8088/
proxy/application 1625897919713 0003/
Kill Command = /home/hdoop/hadoop-3.2.1/bin/mapred job -kill
job_1625897919713_0003
Hadoop job information for Stage-2: number of mappers: 1; number of reducers: 1
ISE
EC
ISE
EEE
AERO
0.166 seconds, Fetched: 5 row(s)
name, ssn from emp group by ssn, name order by name;
2021-07-10 12:07:00,442 Stage-2 map = 0%, reduce = 0%
2021-07-10 12:07:10,726 Stage-2 map = 100%, reduce = 0%, Cumulative CPU 2.12
2021-07-10 12:07:15,885 Stage-2 map = 100%, reduce = 100%, Cumulative CPU
3.99 sec
```

MapReduce Total cumulative CPU time: 3 seconds 990 msec

Ended Job = job_1625897919713_0003

MapReduce Jobs Launched:

Stage-Stage-1: Map: 1 Reduce: 1 Cumulative CPU: 2.86 sec HDFS Read: 11947

HDFS Write: 235 SUCCESS

Stage-Stage-2: Map: 1 Reduce: 1 Cumulative CPU: 3.99 sec HDFS Read: 7645

HDFS Write: 211 SUCCESS

Total MapReduce CPU Time Spent: 6 seconds 850 msec

OK

Amith 5002

Krushik 5003

Nikhil 5004

Shashank 5001

chinmaya 5000

Time taken: 50.715 seconds, Fetched: 5 row(s)

hive> select min(salary),max(salary),avg(salary) from emp;

Query ID = hdoop_20210710121111_1f39f9c4-8e66-4baa-8c5a-b71a6c33f060

Total jobs = 1

Launching Job 1 out of 1

Number of reduce tasks determined at compile time: 1

In order to change the average load for a reducer (in bytes):

set hive.exec.reducers.bytes.per.reducer=<number> In order to limit the maximum number of reducers:

set hive.exec.reducers.max=<number>

In order to set a constant number of reducers:

set mapreduce.job.reduces=<number>

Starting Job = job_1625897919713_0004, Tracking URL = http://Chinmayakb:8088/proxy/application_1625897919713_0004/

Kill Command = /home/hdoop/hadoop-3.2.1/bin/mapred job -kill

job_1625897919713_0004

Hadoop job information for Stage-1: number of mappers: 1; number of reducers: 1

2021-07-10 12:11:17,569 Stage-1 map = 0%, reduce = 0%

2021-07-10 12:11:21,727 Stage-1 map = 100%, reduce = 0%, Cumulative CPU 1.67 sec

2021-07-10 12:11:27,908 Stage-1 map = 100%, reduce = 100%, Cumulative CPU 4.43 sec

MapReduce Total cumulative CPU time: 4 seconds 430 msec

Ended Job = $job_1625897919713_0004$

MapReduce Jobs Launched:

Stage-Stage-1: Map: 1 Reduce: 1 Cumulative CPU: 4.43 sec HDFS Read: 17374

HDFS Write: 119 SUCCESS

Total MapReduce CPU Time Spent: 4 seconds 430 msec

OK

120005200035600.0

Time taken: 17.583 seconds, Fetched: 1 row(s)

hive> create table department(dno int,dname string); OK

Time taken: 0.12 seconds

hive> show tables;

OK

department

details

emp

Time taken: 0.03 seconds, Fetched: 3 row(s)

hive > desc department;

OK

dno int

dname string

Time taken: 0.027 seconds, Fetched: 2 row(s)

hive> insert into department values(6,'ISE'),(5,'EC'),(7,'AERO');

Query ID = hdoop_20210710121402_e316535a-0a4d-4736-adf2-5119c7f377c0 Total

jobs = 3

Launching Job 1 out of 3

Number of reduce tasks determined at compile time: 1

In order to change the average load for a reducer (in bytes):

set hive.exec.reducers.bytes.per.reducer=<number> In order to limit the maximum number of reducers:

set hive.exec.reducers.max=<number>

In order to set a constant number of reducers:

set mapreduce.job.reduces=<number>

Starting Job = job_1625897919713_0005, Tracking URL = http://Chinmayakb:8088/proxy/application_1625897919713_0005/

Kill Command = /home/hdoop/hadoop-3.2.1/bin/mapred job -kill

job 1625897919713 0005

Hadoop job information for Stage-1: number of mappers: 1; number of reducers: 1

2021-07-10 12:14:07,651 Stage-1 map = 0%, reduce = 0%

2021-07-10 12:14:12,792 Stage-1 map = 100%, reduce = 0%, Cumulative CPU 2.68

sec

2021-07-10 12:14:16,914 Stage-1 map = 100%, reduce = 100%, Cumulative CPU 4.34 sec

MapReduce Total cumulative CPU time: 4 seconds 340 msec

Ended Job = job_1625897919713_0005

Stage-4 is selected by condition resolver.

Stage-3 is filtered out by condition resolver.

Stage-5 is filtered out by condition resolver.

Moving data to directory

hdfs://127.0.0.1:9000/user/hive/warehouse/employee.db/department/.hive-staging_hive_2021-07-10_12-14-02_449_9028547012151235819-1/-ext-10000 Loading data to table employee.department

MapReduce Jobs Launched:

Stage-Stage-1: Map: 1 Reduce: 1 Cumulative CPU: 4.34 sec HDFS Read: 15628

HDFS Write: 280 SUCCESS

Total MapReduce CPU Time Spent: 4 seconds 340 msec

OK

Time taken: 15.809 seconds

hive> select * from department;

OK

6 ISE

5 EC

7 AERO

Time taken: 0.111 seconds, Fetched: 3 row(s)

hive> select * from emp left outer join department where dname=dept_name; Query ID = hdoop_20210710121555_13bc8842-0de7-4185-becf-f28133639a3d Total jobs = 1

SLF4J: Found binding in

[jar:file:/home/hdoop/hadoop-3.2.1/share/hadoop/common/lib/slf4j-log4j12-1.7.25.jar!/org/slf4j/impl/StaticLoggerBinder.class]

SLF4J: See http://www.slf4j.org/codes.html#multiple_bindings for an explanation.

SLF4J: Actual binding is of type [org.apache.logging.slf4j.Log4jLoggerFactory]

2021-07-10 12:16:01 Dump the side-table for tag: 1 with group count: 3 into file:

file:/tmp/hive/java/hdoop/f29000d8-b5cb-46b3-be29-729ff8a6392e/hive_2021-07-

10_12-15-55_658_5060518414468933463-1/-local-10004/HashTable-Stage-3/

MapJoin-mapfile01--.hashtable2021-07-10 12:16:01 Uploaded 1 File to:

file:/tmp/hive/java/hdoop/f29000d8-b5cb-46b3-be29-729ff8a6392e/hive_2021-07-

10_12-15-55_658_5060518414468933463-1/-local-10004/HashTable-Stage-3/

MapJoin-mapfile01--.hashtable (329 bytes)

Execution completed successfully

MapredLocal task succeeded

Launching Job 1 out of 1

Number of reduce tasks is set to 0 since there's no reduce operator

Starting Job = job_1625897919713_0006, Tracking URL = http://Chinmayakb:8088/proxy/application_1625897919713_0006/

Kill Command = /home/hdoop/hadoop-3.2.1/bin/mapred job -kill job_1625897919713_0006

Hadoop job information for Stage-3: number of mappers: 1; number of reducers: 0 2021-07-10 12:16:08,263 Stage-3 map = 0%, reduce = 0%

2021-07-10 12:16:12,381 Stage-3 map = 100%, reduce = 0%, Cumulative CPU 2.45 sec

MapReduce Total cumulative CPU time: 2 seconds 450 msec

Ended Job = job_1625897919713_0006

MapReduce Jobs Launched:

Stage-Stage-3: Map: 1 Cumulative CPU: 2.45 sec HDFS Read: 10419 HDFS Write:

294 SUCCESS

Total MapReduce CPU Time Spent: 2 seconds 450 msec

OK

chinmaya 5000 12000Bangalore ISE 6 6 ISE

Shashank

Amith

Nikhil

Time taken: 24.036 seconds, Fetched: 4 row(s)

hive> select * from emp right outer join department where dname=dept_name; Query ID = hdoop_20210710121645_a828ba60-0338-48e8-9029-88773660df32 Total jobs = 1

SLF4J: Found binding in [jar:file:/home/hdoop/apache-hive-3.1.2-bin/lib/log4j-slf4j-impl-2.10.0.jar!/org/slf4j/impl/StaticLoggerBinder.class]

SLF4J: Found binding in

[jar:file:/home/hdoop/hadoop-3.2.1/share/hadoop/common/lib/slf4j-log4j12-1.7.25.jar!/org/slf4j/impl/StaticLoggerBinder.class]

SLF4J: Actual binding is of type [org.apache.logging.slf4j.Log4jLoggerFactory] 2021-07-10 12:16:50 Dump the side-table for tag: 1 with group count: 3 into file: file:/tmp/hive/java/hdoop/f29000d8-b5cb-46b3-be29-729ff8a6392e/hive_2021-07-

10_12-16-45_561_8658834088026560490-1/-local-10004/HashTable-Stage-3/MapJoin-mapfile11--.hashtable

2021-07-10 12:16:50 End of local task; Time Taken: 1.151 sec. Execution completed successfully

MapredLocal task succeeded

Launching Job 1 out of 1

Number of reduce tasks is set to 0 since there's no reduce operator

Starting Job = job_1625897919713_0007, Tracking URL = http://Chinmayakb:8088/proxy/application_1625897919713_0007/

Kill Command = /home/hdoop/hadoop-3.2.1/bin/mapred job -kill

job_1625897919713_0007

Hadoop job information for Stage-3: number of mappers: 1; number of reducers: 0

2021-07-10 12:16:57,442 Stage-3 map = 0%, reduce = 0%

2021-07-10 12:17:02,587 Stage-3 map = 100%, reduce = 0%, Cumulative CPU 2.5 sec

MapReduce Total cumulative CPU time: 2 seconds 500 msec

Ended Job = job_1625897919713_0007

MapReduce Jobs Launched:

Stage-Stage-3: Map: 1 Cumulative CPU: 2.5 sec HDFS Read: 10432 HDFS Write: 294 SUCCESS

5001 42000Shimoga EC 4 5002 22000Bangalore ISE 5 5004 52000Ballary AERO

5 EC

6 ISE

37 AERO

Total MapReduce CPU Time Spent: 2 seconds 500 msec OK

chinmaya

Shashank

Amith

Nikhil

Time taken: 18.452 seconds, Fetched: 4 row(s)

hive> select * from emp full outer join department where dname=dept_name; Query ID = hdoop_20210710121720_f5c9d77c-9493-43c6-8f3f-4fa714303d1e Total jobs = 1

SLF4J: Found binding in [jar:file:/home/hdoop/apache-hive-3.1.2-bin/lib/log4j-slf4j-impl-2.10.0.jar!/org/slf4j/impl/StaticLoggerBinder.class]

2021-07-10 12:17:25 Dump the side-table for tag: 1 with group count: 3 into file:

file:/tmp/hive/java/hdoop/f29000d8-b5cb-46b3-be29-729ff8a6392e/hive_2021-07-10_12-17-20_112_5810221896728672370-1/-local-10004/HashTable-Stage-3/MapJoin-mapfile21--.hashtable2021-07-10 12:17:25 Uploaded 1 File to: file:/tmp/hive/java/hdoop/f29000d8-b5cb-46b3-be29-729ff8a6392e/hive_2021-07-10_12-17-20_112_5810221896728672370-1/-local-10004/HashTable-Stage-3/MapJoin-mapfile21--.hashtable (329 bytes)

Execution completed successfully

MapredLocal task succeeded

Launching Job 1 out of 1

Number of reduce tasks is set to 0 since there's no reduce operator

Starting Job = job_1625897919713_0008, Tracking URL = http://Chinmayakb:8088/proxy/application_1625897919713_0008/

5000 12000Bangalore ISE 6 5001 42000Shimoga EC 4 5002 22000Bangalore ISE 5 5004 52000Ballary AERO

6 ISE

5.5 EC

6.6 ISE

37 AERO

Kill Command = /home/hdoop/hadoop-3.2.1/bin/mapred job -kill job_1625897919713_0008

Hadoop job information for Stage-3: number of mappers: 1; number of reducers: 0 2021-07-10 12:17:31,105 Stage-3 map = 0%, reduce = 0%

2021-07-10 12:17:36,203 Stage-3 map = 100%, reduce = 0%, Cumulative CPU 2.61 sec

MapReduce Total cumulative CPU time: 2 seconds 610 msec

Ended Job = $job_1625897919713_0008$

MapReduce Jobs Launched:

Stage-Stage-3: Map: 1 Cumulative CPU: 2.61 sec HDFS Read: 10432 HDFS Write: 294 SUCCESS

Total MapReduce CPU Time Spent: 2 seconds 610 msec

OK

chinmaya

Shashank

Amith

Nikhil

Time taken: 17.194 seconds, Fetched: 4 row(s)

hive>